

What is claimed is:

1. An illegal access data handling apparatus, being placed outside a given internal communication network, for receiving illegal access data transmitted from a data communication device placed outside the internal communication network for a purpose of illegally accessing the internal communication network, and for taking countermeasures against the illegal access data received.
5
- 10 2. The illegal access data handling apparatus of claim 1, wherein the illegal access data handling apparatus is connected to an illegal access data detection device for relaying a data communication between a data communication device placed within the internal communication network and a data communication device placed outside the internal communication network, and for detecting the illegal access data, and
15 wherein the illegal access data handling apparatus receives the illegal access data from the illegal access data detection device.
- 20 3. The illegal access data handling apparatus of claim 2, comprising:
a data reception section for receiving the illegal access data from the illegal access data detection device;

a data analysis section for analyzing the illegal access data received by the data reception section;

a response data generation section for generating response data to the illegal access data based upon an analysis result from the data analysis section; and

5 a data transmission section for transmitting the response data generated by the response data generation section to the illegal access data detection device.

10 4. The illegal access data handling apparatus of claim 3, wherein the data reception section receives an encapsulated illegal access data by the illegal access data detection device from the illegal access data detection device,

15 wherein the illegal access data handling apparatus further includes a capsulation section for decapsulating the encapsulated illegal access data received by the data reception section to extract the illegal access data, and encapsulates the response data, and

20 wherein the data transmission section transmits the response data encapsulated by the capsulation section to the illegal access data detection device.

25 5. The illegal access data handling apparatus of claim 3, wherein the response data generation section generates

response data having same contents as those of response data that would be generated by a specific data communication device placed in the internal communication network in response to the illegal access data if the 5 specific data communication device received the illegal access data.

6. The illegal access data handling apparatus of claim 3, wherein the data reception section receives from the 10 illegal access data detection device communication history information indicating a communication history of the illegal access data detection device,
wherein the data analysis section analyzes the communication history information received by the data 15 reception section, and generates illegal access data designation information designating data transmitted from a given data communication device placed outside the internal communication network as the illegal access data based upon an analysis result of the communication history 20 information, and

wherein the data transmission section transmits the illegal access data designation information generated by the data analysis section to the illegal data detection device.

7. The illegal access data handling apparatus of claim
4, wherein the data reception section receives the illegal
access data having authentication information attached to
be used for data authentication from the illegal access
5 data detection device, and
wherein the encapsulation section performs the data
authentication for the illegal access data by using the
authentication information.
- 10 8. The illegal access data handling apparatus of claim
7, wherein the encapsulation section attaches the
authentication information to be used for the data
authentication for the response data to the response data,
and
15 wherein the data transmission section transmits the
response data having the authentication information
attached by the encapsulation section to the illegal access
data detection device.
- 20 9. A method for handling illegal access data outside a
given internal communication network, the method
comprising:
receiving illegal access data transmitted from a
data communication device placed outside the internal
25 communication network for a purpose of illegally accessing

the internal communication network; and
taking countermeasures against the illegal access
data received.

5 10. The method of claim 9, comprising:

communicating with an illegal access data detection
device for relaying a data communication between a data
communication device placed within the internal
communication network and a data communication device
10 placed outside the internal communication network, and for
detecting the illegal access data; and
receiving the illegal access data from the illegal
access data detection device.

15 11. The method of claim 10, comprising:

receiving the illegal access data from the illegal
access data detection device;
analyzing the illegal access data received by the
receiving;
20 generating response data to the illegal access data
based upon an analysis result from the analyzing; and
transmitting the response data generated by the
generating to the illegal access data detection device.

25 12. The method of claim 10, generates response data

having same contents as those of response data that would
be generated by a specific data communication device
placed in the internal communication network in response
to the illegal access data if the specific data
5 communication device received the illegal access data.